

I claim:

1. Disk data storage media comprising a disk having first and second disk surfaces and an edge surface with at least one of said first and second disk surfaces and said edge surface being formed to store data.
2. Disk data storage media as claimed in claim 1 in which the disk edge surface stores data magnetically.
3. Disk data storage media as claimed in claim 1 in which the disk edge surface stores data optically.
4. Disk data storage media as claimed in claim 1 in which the disk edge surface stores data magneto-optically.
5. Disk data storage media as claimed in claim 1 in which the disk edge surface stores data by inscribed markings.
6. Disk data storage media as claimed in claim 1 in which data is imparted to the disk edge surface in a process selected from the group consisting of physical, magnetic, kinetic, thermal and optical processes.
7. Disk data storage media as claimed in claim 1 in which the disk edge surface is readable and writable.
8. Disk data storage media as claimed in claim 1 in which the disk edge surface is read only.
9. Disk data storage media as claimed in claim 1 in which the disk edge surface is enlarged.

10. Disk data storage media as claimed in claim 9 in which the enlarged disk edge surface is formed by increasing the thickness of the disk adjacent the disk edge.

11. Disk data storage media as claimed in claim 9 in which the enlarged disk edge surface is formed by creating an angled annular surface extending from at least one of the first and second disk surfaces.

12. Disk data storage media as claimed in claim 11 including a pair of opposed, angled surfaces that define a generally triangular cross-section having an apex at the edge surface of the disk.

13. Disk data storage media as claimed in claim 9 in which the enlarged disk edge surface is formed by an angled surface extending from the first to the second disk surfaces.

14. Disk data storage media as claimed in claim 9 in which the enlarged disk edge surface is formed by an annular flange extending from at least one of the first and second disk surfaces.

15. Disk data storage media as claimed in claim 1 in which the edge surface is formed with at least two layers, each layer being adapted to store data.

16. Disk data storage media as claimed in claim 1 in which the disk edge surface includes data to permit monitoring of physical characteristics of the disk and the movement of the disk.

17. Disk data storage media as claimed in claim 16 in which the disk edge surface includes data to permit monitoring of the tilt, vibration or rotation speed of the disk.

18. Disk data storage media as claimed in claim 1 in which the disk edge surface is formed to receive material having a surface to store data.

19. Disk data storage media as claimed in claim 18 in which the disk edge surface is formed with a groove to receive a band of material having a surface to store data.

5        20.. Disk data storage media as claimed in claim 1 including at least one wire bonded to the disk edge surface, said at least one wire being used to store data.

21. In disk data storage media having first and second disk surfaces and an edge surface, the improvement comprising forming of the disk edge surface to store  
10 data.

22. A method of storing additional data on disk data storage media in the form of a disk with first and second disk surfaces having at least one data storage surface comprising storing data on the edge surface of the disk.  
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23. A method of providing additional data storage capacity on disk data storage media in the form of a disk with first and second disk surfaces, comprising the step of forming a data storage surface on the edge surface of the disk.

20        24. The method as claimed in claim 23 in which the step of forming a data storage surface on the edge surface of the disk includes the steps of:

preparing the edge surface of the disk; and

25        applying a surface for storage of data to the edge surface.

25. The method as claimed in claim 24 in which the step of applying a surface comprises:

30        rotating the disk; and

coating the disk with a surface to store data.

26. The method as claimed in claim 25 in which the step of coating the surface comprises spraying the data storage surface onto the edge surface.

5        27. The method as claimed in claim 24 in which the step of applying a surface comprises bonding material with a data storage surface to the edge surface.

28. The method as claimed in claim 24 in which the step of applying a surface comprises bonding a ring of material with a data storage surface to the edge surface.

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29. The method as claimed in claim 28 including the step of forming a groove in the edge surface to receive the ring of material.

30. A method of converting disk data storage media in the form of a disk with  
15   first and second disk surfaces into a disk with additional storage comprising the steps:

preparing the edge surface of the disk; and

applying a surface for storage of data to the edge surface.

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31. A method of forming disk data storage media comprising the steps:

mounting a pair of disk platters back to back to define an annular perimeter space therebetween; and

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mounting a data storage surface in the perimeter space to define an edge surface.